

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number  
**WO 2005/013021 A1**

BEST AVAILABLE COPY

(51) International Patent Classification<sup>7</sup>: **G05B 19/401**,  
G08C 17/02

(21) International Application Number:  
PCT/EP2004/051506

(22) International Filing Date: 15 July 2004 (15.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
BO2003A000429 16 July 2003 (16.07.2003) IT

(71) Applicant (for all designated States except US): **MAR-  
POSS SOCIETA' PER AZIONI** [IT/IT]; via Saliceto 13,  
I-40010 BENTIVOGLIO BO (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FERRARI, Andrea**  
[IT/IT]; via Valle Gallare 36, I-44100 FERRARA (IT).  
**CARLI, Carlo** [IT/IT]; via Mascheraio 30, I-44100 FER-  
RARA (IT).

(74) Common Representative: **MARPOSS SOCIETA' PER  
AZIONI**; Patent Department, via Saliceto 13, I-40010  
BENTIVOGLIO BO (IT).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

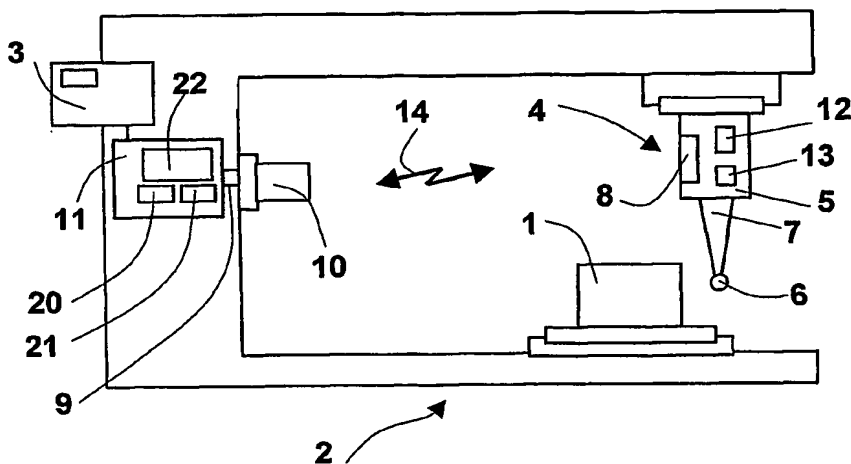
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR THE DIMENSION CHECKING OF MECHANICAL PIECES



(57) Abstract: A system for performing dimension checkings of mechanical pieces includes a contact detecting probe (4) with wireless transmission, for example by means of a single radiofrequency two-way communication link (14), with respect to a base station (10) connected to an interface unit (11). The probe includes a logic unit (36) and a memory unit (38) in which there reside the values of some operation parameters, for example the transmission frequency and/or the activation mode of the probe. The values of the operation parameters can be modified in a programming phase, according to a method that foresees the wireless transmission of control signals from a manually operated control device - carried out, for example, in the interface unit - to the probe, for giving the updating of the values among the selectable values of a sequence residing in the probe, and the acquisition of the current value. The generation of the former control signals is activated by manually operating keys of the interface unit on the basis of information - regarding the parameter under consideration and its associated current value - observable on a display, for example in the interface unit, information visualized on the basis of signals transmitted from the probe.

WO 2005/013021 A1



*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

BEST AVAILABLE COPY